



(+) 18816996168  
Ponciplastics.com

**Product Data Sheet &  
General Processing Conditions**

**EMI 2560.5  
Polycarbonate/ABS Alloy (PC/ABS)  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI/ESD Protection**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|----------------------------------------------|-----------------------|------------------|------------------|
| Primary Additive                             | 5 %                   | 5 %              |                  |
| Specific Gravity                             | 1.20                  | 1.20             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0050 - 0.0070 in/in | 0.50 - 0.70 %    | D 955            |

**MECHANICAL**

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 2.5 ft-lbs/in              | 133 J/m     | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 20.0 ft-lbs/in             | 1068 J/m    | D 4812 |
| Tensile Strength                                         | 8500 psi                   | 59 MPa      | D 638  |
| Tensile Elongation                                       | 6.0 - 8.0 %                | 6.0 - 8.0 % | D 638  |
| Tensile Modulus                                          | 0.38 x 10 <sup>6</sup> psi | 2620 MPa    | D 638  |
| Flexural Strength                                        | 15000 psi                  | 103 MPa     | D 790  |
| Flexural Modulus                                         | 0.42 x 10 <sup>6</sup> psi | 2896 MPa    | D 790  |

**ELECTRICAL**

|                                     |               |               |                    |
|-------------------------------------|---------------|---------------|--------------------|
| Volume Resistivity                  | < 1000 ohm.cm | < 1000 ohm.cm | D 257              |
| Surface Resistivity                 | < 1E6 ohm/sq  | < 1E6 ohm/sq  | D 257              |
| Surface Resistance                  | < 1E5 ohm     | < 1E5 ohm     | ESD STM11.11       |
| Static Decay                        |               |               | ESD STM11.11       |
| MIL-PRF-81705D, 5kV to 50 V, 12% RH | < 2.00 s      | < 2.00 s      | FTMS101C<br>4046.1 |

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.  
Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 470 - 525 °F      | 243 - 274 °C     |
| Mold Temperature   | 125 - 200 °F      | 52 - 93 °C       |
| Drying             | 4 hrs @ 200 °F    | 4 hrs @ 93 °C    |
| Moisture Content   | 0.02 %            | 0.02 %           |
| Dew Point          | -20 °F            | -29 °C           |

**PROCESSING NOTES**

Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps.  
Remove hopper magnets.  
Desiccant Type Dryer Required.